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ATARI CORP.
1196 Borregas Avenue
Sunnyvale, CA 94086

DATE: May 14, 1986

TO: Doug Renn

CC: Shiraz Shivji

FR: Tom Brightman

RE: Atari Monitor Summary Specifications

Please find attached list of our summary specifications for Atari monitors for the ST product line. Please review these specifications and make any necessary corrections.

Please also provide a drawing or specification for the SC1425 EST monitor connector pin out.

Thank you,

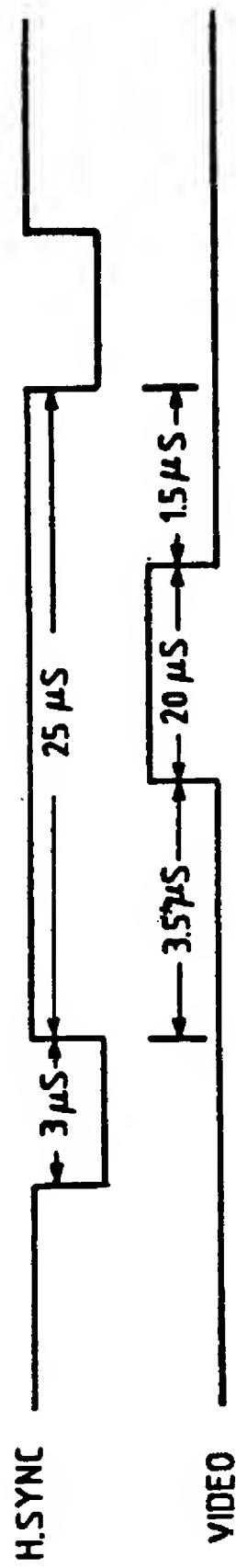

Tom Brightman

		SM 124	SC 1224	SC 1425
CRT	SIZE	12" (11" V)	12" (11" V)	14" (13"V)
	Phosphor	-	Dot	Dot
INTERFACE	Dot Pitch	-	0.38mm	0.31mm
	Connector	13 pin male din	13 pin male din	TBD
DEFLECTION	Audio	1 VPP/1.0K	1 VPP/1.0K	1 VPP/1.0K
	Video Input	Digital	RGB Analog	RGB Analog
	Input Impedance	75 /1.0VPP	75 /0-1.0VPP	75 /0-1.0VPP
	Dot Rate	32MHz	16MHz	32MHz
	H SYNC	TTL/3.3K /NEG	TTL/3.3K /NEG	TTL/3.3K /NEG
	V SYNC	TTL/3.3K /NEG	TTL/3.3K /NEG	TTL/3.3K /NEG
	Display Area	210mm x 131mm	210mm x 150mm	240mm x 180mm
	Resolution	640 x 400	640 x 200	640 x 480
	Frequency H	35.7KHz	15.75KHz	31.5KHz
	I V	71.2KHz	60Hz	60Hz
USER CONTROLS	Retrace H	4usec	10usec	6usec
	I V	700usec	1msec	700usec
	Input Rise Time	10nsec	15nsec	10nsec
	Input Fall Time	10nsec	15nsec	10nsec
	Geo Distortion	1.5%	1.5%	1.5%
	Non-Linearity	9%	7%	7%
	Misconvergence (center)	N/A	0.6mm	0.4mm
	Misconvergence (corner)	N/A	1.0mm	0.6mm
	Power ON/OFF	Switch/Pot	Switch/Pot	Switch/Pot
	Audio Volume	Pot	Pot	Pot
	Brightness	Pot	Pot	Pot
	Contrast	Pot	Pot	Pot

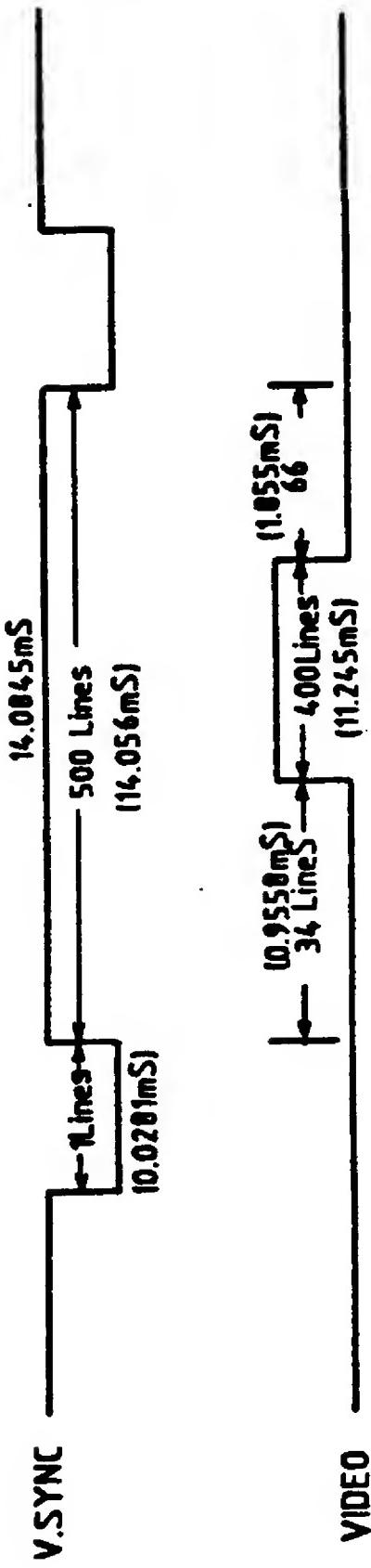
NOTE: 1. On/Off & Volume may be combined.
 2. On SM 124, Brightness/Contrast may be combined.
 3. Audio frequency response of 100Hz - 15KHz 3db.

124

TIMING CHART



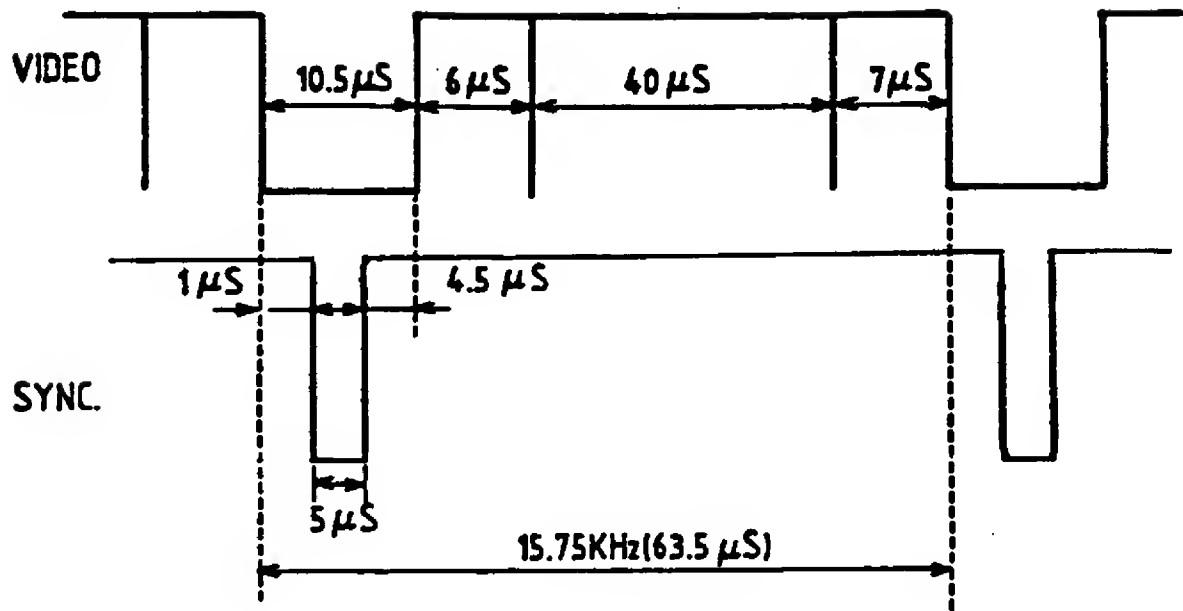
*NOMINAL
ACTUALLY $2.4 \mu\text{s}$ - $4.5 \mu\text{s}$



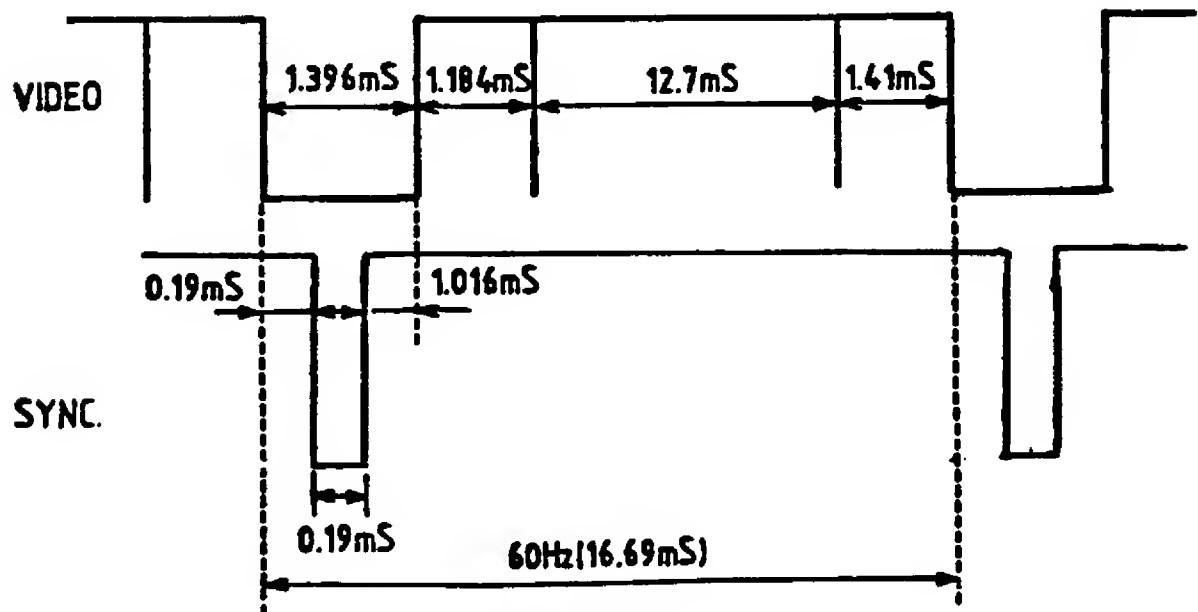
-Fig 1 -

SC 1224

10-1. HORIZONTAL TIMING

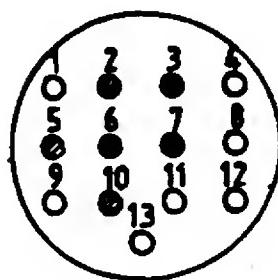


10-2. VERTICAL TIMING



SIGNAL DIN-CONNECTOR
PIN ASSIGNMENT

*13PIN DIN CONNECTOR
TO THE COMPUTER



- 1 AUDIO
- 2 NOT CONNECTED
- 3 NOT CONNECTED
- 4 MONO/RGB*
- 5 NOT CONNECTED
- 6 GREEN
- 7 RED
- 8 12V PULLUP
- 9 H-SYNC
- 10 BLUE
- 11 VIDEO
- 12 V-SYNC
- 13 GND

*NOTE: PIN 4 = "GROUND" FOR MONO/NOT CONNECTED FOR RGB.

SC 1425

